

Appendix table 4-23.

Total R&D and gross state product, by state: 1999

Rank	State	R&D (millions of current dollars)	GSP	R&D/GSP (percent)	Rank in R&D/GSP	U.S. R&D (percent)	Cumulative (percent)
1	California	47,965	1,229,098	3.90	8	20.69	20.69
2	Michigan	18,799	308,310	6.10	2	8.11	28.80
3	New York	14,110	754,590	1.87	25	6.09	34.88
4	Texas	12,429	687,272	1.81	26	5.36	40.25
5	Massachusetts	12,190	262,564	4.64	4	5.26	45.50
6	Pennsylvania	10,695	382,980	2.79	15	4.61	50.12
7	New Jersey	10,536	331,544	3.18	12	4.54	54.66
8	Illinois	9,719	445,666	2.18	21	4.19	58.85
9	Washington	8,336	209,258	3.98	7	3.60	62.45
10	Maryland	8,087	174,710	4.63	5	3.49	65.94
11	Ohio	8,082	361,981	2.23	20	3.49	69.42
12	North Carolina	5,268	258,592	2.04	23	2.27	71.70
13	Virginia	5,100	242,221	2.11	22	2.20	73.90
14	Arizona	5,091	143,683	3.54	11	2.20	76.09
15	Connecticut	4,436	151,779	2.92	13	1.91	78.01
16	Florida	4,265	442,895	0.96	37	1.84	79.85
17	Colorado	4,209	153,728	2.74	16	1.82	81.66
18	Minnesota	3,905	172,982	2.26	19	1.68	83.35
19	New Mexico	3,279	51,026	6.43	1	1.41	84.76
20	Georgia	2,960	275,719	1.07	35	1.28	86.04
21	Indiana	2,763	182,202	1.52	30	1.19	87.23
22	Wisconsin	2,566	166,481	1.54	28	1.11	88.34
23	District of Columbia	2,510	55,832	4.50	6	1.08	89.42
24	Tennessee	2,290	170,085	1.35	31	0.99	90.41
25	Missouri	2,009	170,470	1.18	32	0.87	91.27
26	Oregon	1,974	109,694	1.80	27	0.85	92.12
27	Alabama	1,761	115,071	1.53	29	0.76	92.88
28	Rhode Island	1,651	32,546	5.07	3	0.71	93.60
29	Kansas	1,556	80,843	1.92	24	0.67	94.27
30	Utah	1,474	62,641	2.35	17	0.64	94.90
31	Delaware	1,343	34,669	3.87	9	0.58	95.48
32	Idaho	1,309	34,025	3.85	10	0.56	96.05
33	New Hampshire	1,256	44,229	2.84	14	0.54	96.59
34	Iowa	1,003	85,243	1.18	33	0.43	97.02
35	South Carolina	979	106,917	0.92	38	0.42	97.44
36	Kentucky	968	113,539	0.85	39	0.42	97.86
37	Oklahoma	664	86,382	0.77	42	0.29	98.15
38	Louisiana	626	128,959	0.49	49	0.27	98.42
39	Mississippi	476	64,286	0.74	43	0.21	98.62
40	Nevada	458	69,864	0.66	46	0.20	98.82
41	West Virginia	439	40,685	1.08	34	0.19	99.01
42	Nebraska	417	53,744	0.78	41	0.18	99.19
43	Vermont	389	17,164	2.27	18	0.17	99.36
44	Arkansas	378	64,773	0.58	47	0.16	99.52
45	Hawaii	270	40,914	0.66	45	0.12	99.64
46	Maine	225	34,064	0.66	44	0.10	99.73
47	Montana	169	20,636	0.82	40	0.07	99.81
48	North Dakota	168	16,991	0.99	36	0.07	99.88
49	Alaska	152	26,353	0.58	48	0.07	99.94
50	Wyoming	66	17,448	0.38	50	0.03	99.97
51	South Dakota	60	21,631	0.28	51	0.03	100.00
	Other and unknown	12,311	NA	NA	NA	NA	NA

GSP = gross state product; NA = not applicable

NOTES: U.S. R&D total = 244,143. U.S. total R&D attributable to states = 231,832. The "other and unknown" category includes R&D performed within the 50 states or the District of Columbia but where the specific location of such performance was not provided by survey respondents. It also includes R&D conducted by organizations within the United States but where actual performance does not take place in a particular state or the District of Columbia, e.g., research conducted on marine vessels and research in Puerto Rico. Finally, it also includes a small accounting difference due to the total for the United States being based on calendar year data, whereas data by state pertain to the fiscal year for nonindustrial performance. The "U.S. total attributable to states" is the U.S. total excluding the "other and unknown" component. When state R&D is taken as a percentage of U.S. R&D, the denominator used is the U.S. total attributable to states.

SOURCES: National Science Foundation, Division of Science Resources Studies (NSF/SRS), *Research and Development in Industry: 1999*, Early Release Tables (Arlington, VA, 2001); NSF/SRS, *Academic Research and Development Expenditures: Fiscal Year 1999*, NSF 01-329 (Arlington, VA, 2001); NSF/SRS, *Federal Funds for Research and Development: Fiscal Years 1999, 2000, and 2001*, NSF 01-328 (Arlington, VA, 2001); and Department of Commerce, Bureau of Economic Analysis.